INTERNATIONAL SEARCH HEFORT

Internal Application No PCT/US2004/021641

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K38/17 A61K38/18

A61K45/06

A61P35/00

A61K38/19

A61K38/21

A61K45/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, COMPENDEX, EMBASE

ategory °	Citation of document, with Indication, where appropriate, of t	he relevant passages	Relevant to claim No.
(WO 01/66144 A (DARNOWSKI JAMES CALABRESI PAUL (US); RHODE ISL A LIFES) 13 September 2001 (20 page 6, line 7 - line 32; cla	1-3,11, 12, 20-24, 32,33, 44-46	
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Special consi A docum consi E earlier filing		To later document published after to repriority date and not in conflicted to understand the principlinvention 'X' document of particular relevance cannot be considered novel or	he international filing date ict with the application but le or theory underlying the e; the claimed invention
"L" docum which cltatk "O" docum other "P" docum	nent which may throw doubts on priority claim(s) or n is cited to establish the publication date of another on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or means nent published prior to the international filing date but than the priority date claimed	cannot be considered novel or involve an inventive step when "Y" document of particular relevanc cannot be considered to involv document is combined with on ments, such combination being in the art. "&" document member of the same	cannot be considered to the document is taken alone e; the claimed invention e an inventive step when the e or more other such docu- g obvious to a person skilled
	e actual completion of the international search 24 January 2005	Date of mailing of the internation 1 0. 05. 2005	nal search report
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk	Authorized officer	

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X ALLEGRINI G ET AL: "THE ANGIOGENESIS 1-3,11,INHIBITOR THROMBOSPONDIN-1 PLUS IRINOTECAN 12, 20-24, SIGNIFICANTLY INHIBIT TUMOR GROWTH IN HUMAN COLON TUMOR BEARING NUDE MICE" 32,33, PROCEEDINGS OF THE 91ST ANNUAL MEETING OF 44-46 THE AMERICAN ASSOCIATION FOR CANCER RESEARCH. SAN FRANCISCO, CA, APRIL 1 - 5, 2000, PROCEEDINGS OF THE ANNUAL MEETING OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH, PHILADELPHIA, PA : AACR, US vol. 41, March 2000 (2000-03), page 813, XP001019254 abstract X F.Y.F.L DE VOS: "A phase I dose 1-3,11,escalating study of the angiogenesis 12, 20-24, inhibitor thrombospondin-1 mimetic (abt-510) in patients with advanced 32,33, cancer" 44-46 EUROPEAN JOURNAL OF CANCER, PERGAMON PRESS, OXFORD, GB, vol. 38, November 2002 (2002-11), pages S78-S79, XP004403691 ISSN: 0959-8049 abstract X ARMSTRONG L C ET AL: "Thrombospondins 1 1-3,11. and 2 function as inhibitors of 12, angiogenesis" 20-24. MATRIX BIOLOGY, ELSEVIER, 32,33, vol. 22, no. 1, March 2003 (2003-03). 44-46 pages 63-71, XP002982095 ISSN: 0945-053X abstract X GUO N-H ET AL: "ANTIPROLIFERATIVE AND 1-3,11,ANTITUMOR ACTIVITIES OF D-REVERSE PEPTIDES 12, DERIVED FROM THE SECOND TYPE-1 REPEAT OF 20-24. THROMBOSPONDIN-1" 32,33, JOURNAL OF PEPTIDE RESEARCH, MUNKSGAARD 44-46 INTERNATIONAL PUBLISHERS, COPENHAGEN, DK, vol. 50, no. 3, September 1997 (1997-09), pages 210-221, XP000696384 ISSN: 1397-002X abstract page 220, column 1, line 18 - line 24 -/--

INLIEHNATIONAL SEARCH REPORT

Inst__tional Application No
PCT/US2004/021641

1-3,11, 12, 20-24, 32,33, 44-46
12, 20-24, 32,33, 44-46
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20-24, 32,33, 44-46
1-3,11, 12, 20-24, 32,33, 44-46
1-3,11, 12, 20-24, 32,33, 44-46
1-3,11, 12, 20-24, 32,33, 44-46

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Int__tional Application No PCT/US2004/021641

	T/US2004/021641
	Relevant to claim No.
VAILHÉ BRUNO ET AL: "Thrombospondins as anti-angiogenic therapeutic agents." CURRENT PHARMACEUTICAL DESIGN. 2003, vol. 9, no. 7, 2003, pages 583-588, XP1204808 ISSN: 1381-6128 abstract	1-3,11, 12, 20-24, 32,33, 44-46
IRUELA-ARISPE M L ET AL: "INHIBITION OF ANGIOGENESIS BY THROMBOSPONDIN-1 IS MEDIATED BY 2 INDEPENDENT REGIONS WITHIN THE TYPE 1 REPEATS" CIRCULATION, AMERICAN HEART ASSOCIATION, DALLAS, TX, US, vol. 100, no. 13, 28 September 1999 (1999-09-28), pages 1423-1431, XP000923386 ISSN: 0009-7322 abstract page 1423, column 1, line 1 - column 2, line 2	1-3,11, 12, 20-24, 32,33, 44-46
US 5 639 725 A (FOLKMAN M JUDAH ET AL) 17 June 1997 (1997-06-17)	1-3,11, 12, 20-24, 32,33, 44-46
column 2, line 63 - column 3, line 4	44-40
DATABASE WPI Section Ch, Week 200347 Derwent Publications Ltd., London, GB; Class B04, AN 2003-496683 XP002314426 & JP 2003 012541 A (FUJI PHARM IND CO LTD) 15 January 2003 (2003-01-15) abstract	1-3,11, 12, 20-24, 32,33, 44-46
US 6 576 632 B1 (AWAD M M A; BLAKE J F; GOLDSTEIN S W; KRAMER K W; LONGO K P; RAICHE K) 10 June 2003 (2003-06-10)	1-3,11, 12, 20-24, 32,33, 44-46
column 1, line 9 - column 2, line 2	
DATABASE WPI Section Ch, Week 200364 Derwent Publications Ltd., London, GB; Class B03, AN 2003-674472 XP002314427 & JP 2003 183249 A (RIKAGAKU KENKYUSHO) 3 July 2003 (2003-07-03) abstract	1-3,11, 12, 20-24, 32,33, 44-46
	VAILHÉ BRUNO ET AL: "Thrombospondins as anti-angiogenic therapeutic agents." CURRENT PHARMACEUTICAL DESIGN. 2003, vol. 9, no. 7, 2003, pages 583-588, XPI204808 ISSN: 1381-6128 abstract IRUELA-ARISPE M L ET AL: "INHIBITION OF ANGIOGENESIS BY THROMBOSPONDIN-1 IS MEDIATED BY 2 INDEPENDENT REGIONS WITHIN THE TYPE 1 REPEATS" CIRCULATION, AMERICAN HEART ASSOCIATION, DALLAS, TX, US, vol. 100, no. 13, 28 September 1999 (1999-09-28), pages 1423-1431, XP000923386 ISSN: 0009-7322 abstract page 1423, column 1, line 1 - column 2, line 2 US 5 639 725 A (FOLKMAN M JUDAH ET AL) 17 June 1997 (1997-06-17) column 2, line 63 - column 3, line 4 DATABASE WPI Section Ch, Week 200347 Derwent Publications Ltd., London, GB; Class B04, AN 2003-496683 XP002314426 & JP 2003 012541 A (FUJI PHARM IND CO LTD) 15 January 2003 (2003-01-15) abstract US 6 576 632 B1 (AWAD M M A; BLAKE J F; GOLDSTEIN S W; KRAMER K W; LONGO K P; RAICHE K) 10 June 2003 (2003-06-10) column 1, line 9 - column 2, line 2 DATABASE WPI Section Ch, Week 200364 Derwent Publications Ltd., London, GB; Class B03, AN 2003-674472 XP002314427 & JP 2003 183249 A (RIKAGAKU KENKYUSHO) 3 July 2003 (2003-07-03)

IN EKNATIONAL SEARCH REPORT

In___ational Application No PCT/US2004/021641

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/076496 A (DUESBERY NICHOLAS S; ANDEL INST VAN (US); WEBB CRAIG P (US); VANDE WO) 3 October 2002 (2002-10-03)	1-3,11, 12, 20-24, 32,33, 44-46
	abstract 	
A	WO 03/018748 A (KIMBERLY CLARK CO) 6 March 2003 (2003-03-06)	1-3,11, 12, 20-24, 32,33, 44-46
	abstract 	
A	WO 02/18380 A (HOFFMANN LA ROCHE) 7 March 2002 (2002-03-07)	1-3,11, 12, 20-24, 32,33, 44-46
	page 2, line 29 - line 32 page 40, line 16 - line 32	
Α	WO 02/18379 A (HOFFMANN LA ROCHE) 7 March 2002 (2002-03-07)	1-3,11, 12, 20-24, 32,33, 44-46
	page 3, line 1 - line 4 page 35, line 21 - page 36, line 3	44-40
A	WO 99/43311 A (JEFFERS MICHAEL E ; US HEALTH (US); WEBB CRAIG P (US); CZERWINSKI GREG) 2 September 1999 (1999-09-02)	1-3,11, 12, 20-24, 32,33, 44-46
	abstract	44-46
A	US 5 997 868 A (GOLDBERG ITZHAK D ET AL) 7 December 1999 (1999-12-07)	1-3,11, 12, 20-24, 32,33, 44-46
,	column 3, line 40 - line 50	
Α	US 5 707 624 A (NICKOLOFF BRIAN J ET AL) 13 January 1998 (1998-01-13)	1-3,11, 12, 20-24, 32,33,
	abstract	44-46
	-/	

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Interpretation No
PCT/US2004/021641

Celegory* Chaiten of occument, with indication, where appropriate, of the relevant passages Relevant to claim No. P, X ZHANG YU-WEN ET AL: "Hepatocyte growth factor/scatter factor mediates angiogenesis through positive VEGF and negative thrombospondin 1 regulation." 32,33, PROCEEDINGS OF THE UNITED STATES OF AMERICA, vol. 100, no. 22, 28 October 2003 (2003-10-28), pages 12718-12723, XP001204754 1SSN: 0027-8424 the whole document			PC1/US2004/021641
P,X ZHANG YU-WEN ET AL: "Hepatocyte growth factor/scatter factor mediates angiogenesis through positive VEGF and negative thrombospondin 1 regulation." 32,33, PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 100, no. 22, 28 October 2003 (2003-10-28), pages 12718-12723, XP001204754 ISSN: 0027-8424 the whole document		•	
factor/scatter factor mediates angiogenesis through positive VEGF and negative thrombospondin 1 regulation." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 100, no. 22, 28 October 2003 (2003-10-28), pages 12718-12723, XP001204754 ISSN: 0027-8424 the whole document	Calegory •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Calegory °	ZHANG YU-WEN ET AL: "Hepatocyte growth factor/scatter factor mediates angiogenesis through positive VEGF and negative thrombospondin 1 regulation." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 100, no. 22, 28 October 2003 (2003-10-28), pages 12718-12723, XP001204754 ISSN: 0027-8424 the whole document	1-3,11, 12, 20-24, 32,33,

INTERNATIONAL SEARCH REPORT

rnational application No. PCT/US2004/021641

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 3, 20, 21, 24, 44, 45, 46 and claims 1, 2, 11, 12, 22, 23, 32, 33 in part
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 3, 20, 21, 24, 44, 45, 46 and Claims 1,2, 11, 12, 22, 23, 32, 33 in part

composition/ methods for inhibiting tumour angiogenesis comprising TSP-1 OR A TSP-1 FUNCTIONAL DERIVATIVE OR TSP-1 AGONIST OR TSP-1 MIMIC

- 3. claims: 1, 2, 11,12, 22, 23, 32, 33 in part composition/ methods for inhibiting tumour angiogenesis comprising INTERFERON-ALPHA
- 4. claims: 1, 2, 11,12, 22, 23, 32, 33 in part composition/ methods for inhibiting tumour angiogenesis comprising INTERFERON-BETA
- 5. claims: 8, 29 and 1, 4 to 7, 11,12, 22 to 28, 32, 33 in part composition/ methods for inhibiting tumour angiogenesis comprising an ANTI-VEGF ANTIBODY
- 6. claims: 1, 4 to 7, 11,12, 22 to 28, 32, 33 in part composition/ methods for inhibiting tumour angiogenesis comprising an ANTI-VEGF RECEPTOR ANTIBODY
- 7. claims: 1, 4 to 7, 11, 12, 22 to 28, 32, 33 in part composition/ methods for inhibiting tumour angiogenesis comprising a DECOY VEGF RECEPTOR
- 8. claims: 1, 4 to 7, 11, 12, 22 to 28, 32, 33 in part composition/ methods for inhibiting tumour angiogenesis comprising a VEGF TRAP
- 9. claims: 1, 4 to 7, 11, 12, 22 to 28, 32, 33 in part

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

composition/ methods for inhibiting tumour angiogenesis comprising a SIRNA SPECIFIC FOR VEGF

- 10. claims: 1, 4 to 7, 11, 12, 22 to 28, 32, 33 in part composition/ methods for inhibiting tumour angiogenesis comprising a SIRNA SPECIFIC FOR VEGF RECEPTOR
- 11. claims: 1, 4 to 7, 11, 12, 22 to 28, 32, 33 in part
 composition/ methods for inhibiting tumour angiogenesis
 comprising a PEPTIDOMETIC INHIBITOR OF VEGF RECEPTOR
 ACTIVATION
- 12. claims: 1, 9, 10, 11, 12, 22, 30, 31, 32, 33 in part composition/ methods for inhibiting tumour angiogenesis comprising a NEUTRALIZING ANTIBODY SPECIFIC FOR HGF/SF
- 13. claims: 1, 9, 10, 11, 12, 22, 30, 31, 32, 33 in part composition/ methods for inhibiting tumour angiogenesis comprising NK4
- 14. claims: 1, 9, 10, 11, 12, 22, 30, 31, 32, 33 in part composition/ methods for inhibiting tumour angiogenesis comprising a DECOY MET RECEPTOR OR FRAGMENT
- 15. claims: 1, 9, 10, 11, 12, 22, 30, 31, 32, 33 in part

 composition/ methods for inhibiting tumour angiogenesis
 comprising a GENETICALLY ENGINEERED POLYPEPTIDES DERIVATIVE
 OF MET WITH INHIBITORY ACTIVITY
- 16. claims: 1, 9, 10, 11, 12, 22, 30, 31, 32, 33 in part composition/ methods for inhibiting tumour angiogenesis comprising a MET SPECIFIC SIRNA
- 17. claims: 1, 9, 10,11, 12, 22, 30, 31, 32, 33 in part composition/ methods for inhibiting tumour angiogenesis comprising an INHIBITOR THE KINASE DOMAIN OF MET
- 18. claims: 1, 9, 10, 11, 12, 22, 30, 31, 32, 33 in part

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

composition/methods for inhibiting tumour angiogenesis comprising an INHIBITOR THAT TARGETS THE MULTI DOCKING SITE OF MET OR ANOTHER AGENT THAT DECREASES HGF/SF OR MET EXPRESSION

19. claims: 14, 35 and Claims 13, 34 and 40 in part

composition/ methods for inhibiting tumour angiogenesis comprising a MAPK pathway inhibitor that INCREASES THE EXPRESSION OR ANTIANGIOGENIC ACTIVITY OF TSP-1

20. claims: 15, 36 and Claims 13, 34 and 40 in part

composition/ methods for inhibiting tumour angiogenesis comprising a MAPK pathway inhibitor that DECREASES THE EXPRESSION OR ANTIANGIOGENIC ACTIVITY OF VEGF

21. claims: 16 to 19, 37 to 39, 41, 42, 43 and Claims 13 and 34 in part

composition/ methods for inhibiting tumour angiogenesis comprising a MAPK pathway which is a MEK INHIBITOR

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nformation on patent family members

Int__itional Application No PCI/US2004/021641

		T				C17 US	2004/021641
Patent docu cited in search		F	Publication date		Patent family member(s)		Publication date
WO 01661	44 A	1	3-09-2001	AU	4351501		17-09-2001
				WO	0166144		13-09-2001
				US 	2002107191	A1 	08-08-2002
US 56397	25 A	1	7-06-1997	AU	692865		18-06-1998
				AU	2461795		16-11-1995
				BR CA	9507479 2188813		16-09-1997
				CN	1149319		02-11-1995 07-05-1997
				CZ	9603122		14-05-1997
				EP	0758390	A1	19-02-1997
				HU	76095		30-06-1997
				JP	9512173		09-12-1997
				JP NZ	2005046148 285501		24-02-2005
				WO	9529242		26-02-1998 02-11-1995
				US	2003064926		03-04-2003
				US	5792845	Α	11-08-1998
				US	2004023877	A1	05-02-2004
				US	5885795		23-03-1999
				US US	5733876 5776704		31-03-1998
				ZA	9503419		07-07-1998 11-01-1996
 JP 20030	 12541 A		 15-01-2003	NONE			
US 65766							
			10-06-2003 	NONE			
JP 20031			03-07-2003 	NONE			
WO 02076	496 A	. (03-10-2002	CA	2442015		03-10-2002
				EP WO	1377312		07-01-2004
					02076496 		03-10-2002
WO 03018	748 A	. (06-03-2003	US	2004127420		01-07-2004
				US Br	2003148959 0211641	A1	07-08-2003
				CA	2455883		13-07-2004 06-03-2003
				CA	2456158		27-02-2003
				CN	1543503	Α	03-11-2004
				CN	1549722		24-11-2004
				EP EP	1423515		02-06-2004
				MX	1513542 PA04001033		16-03-2005 27-05-2004
				MX	PA04001033		27-05-2004 27-05-2004
				WO	03016520		27-02-2003
				WO	03018748	A2	06-03-2003
				US	2003096757		22-05-2003
							22-05-2003 04-09-2003
 WO 02183	 80 A		 07-03-2002	US US AU	2003096757 2003166567 9378401	A1 A	04-09-2003 13-03-2002
 WO 02183	 80 A		 07-03-2002	US US AU BR	2003096757 2003166567 9378401 0113628	A1 A A	04-09-2003 13-03-2002 01-07-2003
 WO 02183	 880 A	. (07-03-2002	US US AU BR CA	2003096757 2003166567 9378401 0113628 2420286	A1 A A A1	04-09-2003 13-03-2002 01-07-2003 07-03-2002
WO 02183	.––––– 880 A		 07-03-2002	US US AU BR CA CN	2003096757 2003166567 2003166567 9378401 0113628 2420286 1451005	A1 A A A1 A	04-09-2003
 WO 02183	B80 A		 07-03-2002	US US AU BR CA	2003096757 2003166567 9378401 0113628 2420286	A1 A A A1 A A1	04-09-2003
WO 02183			 07-03-2002	US US AU BR CA CN WO	2003096757 2003166567 	A1 A A1 A1 A1 A1 T	04-09-2003

INI ERNATIONAL SEARCH REPURT

Information on patent family members

PCT/US2004/021641

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0218380	A		US	2003153586	A1	14-08-2003
			US	2003144307		31-07-2003
			US	2004192709	A1	30-09-2004
			US	2002055513	A1	09-05-2002
			US	2002137756	A1	26-09-2002
			ZA	200301079	Α	07-05-2004
WO 0218379		07-03-2002	AU	1214702	Α	13-03-2002
			BR	0113590		22-07-2003
			CA	2420122		07-03-2002
			CN	1451004		22-10-2003
			WO	0218379		07-03-2002
			EP	1315727	A2	04-06-2003
			JР	2004507540	T	11-03-2004
			US	2003153586		14-08-2003
			US	2003144307		31-07-2003
			US	2004192709		30-09-2004
			US	2002055513		09-05-2002
			US	2002137756		26-09-2002
			ZA	200301078	Α	07-05-2004
WO 9943311	Α	02-09-1999	AU	2795499		15-09-1999
			WO	9943311	A2	02-09-1999
US 5997868	Α	07-12-1999	US	5837676		17-11-1998
			US	5919759		06-07-1999
			US	5965523		12-10-1999
			US	6013624		11-01-2000
			US	6011009		04-01-2000
			US	6498144		24-12-2002
			US	6432406	B1 	13-08-2002
US 5707624	Α	13-01-1998	NONE			